

HAJOS, E.

Poststenotic ureteral stasis. Acta chir. Acad. Sci. Hung. 3 no. 2/3:
153-156 '62.

1. Urologische Klinik (Direktor: Prof. Dr. A. Babics) der Medizinischen
Universitat Budapest.
(URETER diseases)

BALOGH, Ferenc, dr.; HAJOS, Endre, dr.

Bilateral solitary renal cyst. The problem of differential diagnosis.
Orv. hetil. 102 no.15:705-707 9 Ap '61.

1. Budapesti Orvostudomanyi Egyetem, Urológiai Klinika.

(KIDNEY DISEASES diag)

MAGASI, Peter, dr.; HAJOS, Endre, dr.; ROSDY, Erno, dr.

Cysto-urethrography in diseases of the urinary bladder. Magy sebész.
14 no. 5:323-328 0 '61.

1. Budapesti Orvostudományi Egyetem Urológiai klinikájának (Igazgató:
Babics Antal dr. egyet. tanár, akadémikus) közleménye.

(BLADDER radiog) (URETHRA radiog)

HAJOS, Endre, dr.; MAGASI, Peter, dr.

Roentgenographic picture of the operated kidney. Magy radiol. 13
no.2:85-93 Mr '61.

1. A Budapesti Orvostudomanyi Egyetem Urologiai Klinikajának
közleménye (Igazgató: Babics Antal dr., egyetemi tanár).

(KIDNEY surg)

(KIDNEY radiog)

HAJOS, Endre, dr.

"Deep unilateral deviation" of the ureter. Magy radiol. 12 no.⁴:
225-230 N°60.

1. A Budapesti Orvostudomanyi Egyetem Urologiai Klinikajának
(igazgató: Babics Antal dr. egyetemi tanár) közlemenye.
(URETERS abnorm)

HAJOS, Endre, Dr.; BALOGH, Ferenc, Dr.

Diverticulum of the calyx. Magy. radiol. 11 no.3:164-168 Aug 59

1. A Budapesti Orvostudomanyi Egyetem Urológiai Klinikájának
közleménye: (Igazgató: Babics Antal dr. egyetemi tanár)
(KIDNEY PELVIS, dis)
(DIVERTICULOSIS, radiogr)

EXCERPTA MEDICA Sec 9 Vol 13/6 Surgery June 59

3386. EXAMINATION OF URETERAL STONES BY BODY-SECTION RADIOGRAPHY - Untersuchung von Uretersteinen durch Schichtaufnahmen - Hajós E. Urol. Klin. der Med. Univ., Budapest - Z. UROL. 1958, 51/4 (193-200) Illus. 7

It is recalled that in radiographical pictures it is difficult to detect small stones, especially if they are localized on bone, and also transparent stones. In a series of clinical cases the value of tomography or body-section radiography is shown. This method sharpens the outline of the shadow of the object at the level where it is situated and blurs those of the other planes. Serallach - Barcelona (IX, 14)

Hajos Endre

SZENDROI, Zoltan, dr.; HAJOS, Endre, dr.

Isotope therapy in urological surgery. Orv. hetil.
98 no.18:459-463 4 May 57.

1. A Budapesti Orvostudomanyi Egyetem Urológiai klinikájának
(igazgató: Babics. Antal, dr. akadémikus) közleménye.
(UROGENITAL SYSTEM, neoplasms
ther., radioisotopes (Hun))
(ISOTOPES, ther. use
cancers of urogenital system (Hun))

FARAGO, Katlin, dr.; HAJOS, Endre, dr.

Simultaneous tomography. Magy. radiol. 8 no.2:104-106 May 56.

1. A Budapesti Orvostudomanyi Egyetem Rontgenklinikajának
(Igazgató: Ratkoczy, Nandor, dr. egyet. tanár) közleménye.

(ROENTGENOGRAPHY

tomography, simultaneous of several layers, new
technic (Hun))

HAJOS, Endre, dr.

Ulcer activity and x-ray examinations. Orv. hetil. 96 no.33:
897-902 14 Aug 55.

1. A Budapesti Orvostudomanyi Egyetem Rontgenklinikajának
(igazgató: Ratkoczy Nandor dr. egyet. tanár) közleménye.
(PEPTIC ULCER, diag.
x-rays (Hun))
(ROENTGEN RAYS,
in diag. of peptic ulcer (Hun))

HAJOS, Endre, dr.; LELEK, Imre, dr.

Osseous metastases in uterine cancer. Magy. radiol. 7 no.1:
51-54 Jan 55.

1. A Budapesti Orvostudomanyi Egyetem Rontgenklinikajának
közleménye (Igazgató: Ratkoczy, Nando dr. egyet. tanár).
(UTERUS, neoplasms,
metastases to bones.)
(BONES, neoplasms,
metastases from uterus.)

HAJOS, Endre, dr.

Dilated and enlarged aorta. Magy. radiol. 7 no.1:48-50
Jan 55.

1. A Budapesti Orvostudomanyi Egyetem Rontgenklinikajának
közleménye (Igazgató: Ratkoczy, Nandor dr. egyet. tanar).
(ARTERIOSCLEROSIS, pathology,
aortic dilat. & enlargement.)
(AORTA, diseases,
arteriosclerotic dilat. & enlargement.)

Hajos, E.

GIMES, B.; LELEK, I.; HAJOS, E.

Value of the white blood cell count in ulcer diseases. Orv. hetil.
93 no. 40:1143-1145 5 Oct 1952. (CLML 23:5)

1. Doctors. 2. Roentgen Clinic (Director -- Prof. Dr. Nandor Ratkozy), Budapest Medical University.

HAJOS, Erno

Report on the 1st Conference on Housing. Epitoanyag 12 no.7:265-269
Jl '60.

HAJOS, E.; MADER, I.

Some mathematical methods used in testing the efficiency of investments in the
building materials industry. p.380

EPITCANYAG, (Epitoanyogipari Tudomanyos Egyesulet)
Budapest, Hungary
Vol. 11, no.10, Oct. 1959

Monthly List of East European Accessions (EEA) 10., Vol. 8, no.12, Dec. 1959
Uncl.

HAJOS, Andor (Budapest VII Rottenbiller u.26); FUCHS, Oszkar (Budapest VII,
Rottenbiller u.26)

Studies in the field of chloramphenicol. X. Production of chloramphenicol from L_s(+)-threo-β-p-nitrophenylserine-n-butylester. Acta chimica Hung 24 no.4:411-419 '60. (EEAI 10:4)

1. Research Institute of the Pharmaceutical Industry, Budapest.
(Chloramphenicol) (Nitrophenylserine) (Butyl group)
(Esters) (Calcium borohydrides) (Sodium cyanide)
(Hydrolysis)

HAJOS, Andor (Budapest); FUCHS, Oszkar (Budapest)

Application of metal hydride in pharmaceutical chemistry. I. Selective reduction of steroid ketones with calcium boron hydride. In German. Acta chimica Hung. 21 no.2:137-142 '59. (EPAI 9:4)

1. Research Institute of Pharmaceutical Industry, Budapest.
(Metals) (Hydrides) (Complex compounds) (Chemistry, Medical and pharmaceutical) (Reduction) (Calcium borohydrides) (Ketones)
(Steroids)

HAJOS, Andor (Budapest)

Synthetic examinations in connection with chloramphenicol. IX.
Experiments in the O-methyl- β -p-nitrophenyl serine series. Kem.
tud.kozl.MTA 12 no.4:383-393 '59. (EPAI 9;4)

1. Gyogyszeripari Kutato Intezet, Budapest.
(Chloramphenicol) (Methyl group) (Nitrophenylserine)

HAJOS, Andor (Budapest); FUCHS, Oszkar (Budapest)

Application of complexes of metal hydrides in pharmaceutical chemistry.
I. Selective reduction of steroid ketones by calcium boron hydride.
Kem.tud.kozl.MTA 12 no.3:279-283 '59. (KEAI 9:4)

1. Gyogyszeripari Kutato Intezet, Budapest.
(Chemistry, Medical and Pharmaceutical) (Complex compounds)
(Steroids) (Ketones) (Calcium borohydrides)
(Metals) (Hydrides)

HAJOS, Andor (Budapest VII. Rottenbiller u.26)

Studies in the field of chloramphenicol. IX. Experiments in O-methyl-
-p-nitrophenylserine series. In German. Acta chimica Hung. 21 no.3:
255-267 '59. (EEAI 9:5)

1. Research Institute of Pharmaceutical Industry, Budapest.
(Chloromycetin) (Nitrophenylserine) (Methyl group)

HAJOS, Andor (Budapest)

Studies in the field of chloramphenicol. VIII. Preparation of p-nitroacetophenone, p-nitrobenzaldehyde and related compounds through oxidative oxine fission. In German. Acta chimica Hung. 21 no.2: 131-136 '59. (EPAI 9:4)

1. Research Institute of the Pharmaceutical Industry, Budapest.
(Chloramphenicol) (Nitrobenzaldehyde)
(Nitroacetophenone) (Oxines)

Hajdu, A.

Synthetic examination of connection with chloramphenicol. VIII. Preparation of α -nitroacetophenone, α -nitrochalcone, and related compounds by oxidative oxime solitting. B. P.

B. P. Hajdu. "Világ Tudományos Akadémia. Műszaki Akadémiai Kiadványai." Budapest, Hungary. Vol. 12 'p. 3, 1959.

Monthly list of last European Accession (1958) 1959, XXXXXXXXXXXXXXXXXX
9, no. 2, Feb. 1960
Vienna.

GOV / GIVES IN PUBLICATIONS / IN DOCUMENTS

Card 3/4

124

HUNGARY / Organic Chemistry--Natural compounds and
their synthetic analogs

u-c

Abs Jour: Ref Zhur-Khimiya, No 8, 1959, 27628

Abstract: (triphenylmethoxy)-1-propanone, yield 82%,
mp 205-206°; the reaction with II gives ery-
thro-1-(p-nitrophenyl)-2-acetamido-3-(tri-
phenylmethoxy)-1-propanol, yield 90%, mp
203°; the following products have been obtained
from the latter: (a) refluxing for 2 hrs with
5% HCl gives erythro-1-(p-nitrophenyl)-2-amino-
1,3-propanediol, yield 58.5%; (b) treatment
with SOCl_2 followed by hydrolysis of the oxazoline
formed gives threo-1-(p-nitrophenyl)-2-amino-1,3-
propane diol, yield 65%. For Communication V see
RZhKhim, 1959, 15545. -- L. Shakhnovskiy

Card 4/4

HUNGARY / Organic Chemistry--Natural compounds and
their synthetic analogs

0-3

Abs Jour: Ref Zhur-Khimiya, No 8, 1959, 27628

Abstract: (L. M. Long and H. D. Troutmann, J Amer Chem Soc, 71, 2475 (1949)), in addition to threo-(III) and erythro-1-(p-nitrophenyl)-2-acetamide-1,3-propanediol (IV), gives 2,4-dimethyl-5-(p-nitrophenyl)-oxazole (V). The following reaction scheme is proposed: I(aq) \rightarrow 1-(p-nitrophenyl)-2-acetamido-2-propene-1-one (VI) (re-arrangement) \rightarrow 1-(p-nitrophenyl)-2-acetamido-1-propanone (reduction) \rightarrow 1-(p-nitrophenyl)-2-acetamido [sic]-1-hydroxypropane (cyclization) \rightarrow V. The above reaction scheme is confirmed by the synthesis of V from VI (see also RZhKhim, 1957, 63651). The mother liquor remaining after the separation of III and IV (from 200 gms I) is evaporated to dryness, the residue is re-

Card 2/4

HUNGARY / Organic Chemistry--Natural compounds and 0-3
their synthetic analogs

Abs Jour: Ref Zhur-Khimiya, No 8, 1959, 27628

Author : Hajos, A. and Kollonitsch, J.
Inst : Hungarian Academy of Sciences
Title : Investigation of the Chemistry of Chloramphen-
icol. VI. Side Reactions During the Meerwein
[-Ponndorf] Reduction of 1-p-Nitrophenyl-2-
Acetamido-3-Hydroxy-1-Propanone

Orig Pub: Acta Chim Acad Sci Hung, 16. No 4, 461-466
(1958) (in German with English and Russian sum-
maries)

Abstract: The reduction of 1-(p-nitrophenyl)-2-acetamido-
3-hydroxy-1-propanone (I) by the action of (iso-
 $C_3H_7)_3Al$ (II) by the Meerwein [Ponndorf] method

Card 1/4

123

Country : G
Category :

ADS. date : Ref Zhur - Khim., No 9, 1959, No. 15945

Author :
Institut. :
Tit. :

Ori. Pub. :

Abstract : of 50%, m.p. 76-79° (from benzene); benzoate,
m.p. 95-96°. Report IV, see Ref Zhur-Khim,
1957, 63652.-- L. Neyman

Date : 11/11

Country :	G
Category :	
Ref. Num. : Ref. Shur - Khim., No 5, 1959,	No. 15545
Author :	
Institution :	
Title :	
Orik. Pub. :	
Abstract cont'd.	: at about 0°, and II is separated out, with yield of 33%, m.p. 162-163° (from ethyl acetate), $[\alpha]_D^{25} -28^\circ$ (c 1; 1 n. HCl). 4 g. of III in 16 ml. of absolute pyridine and 4.8 ml. of $(CH_3CO)_2O$ are left standing for about 12 hours at about 0°, with 85% yield of XIII, m.p. 125-126°. Nitration of XIII (analogously to IX, temperature 0°) leads to XIV, with yield of 78%, m.p. 135-137° (from alcohol). XIV is reduced by $LiBH_4$ (see VII) into XV, with yield
Date:	10/11

Country :	G
Category :	
Abs. Jour :	Ref Zhur - Khim. No 5, 1959, No. 15545
Author :	
Institut. :	
Title :	
Orig. pub. :	
Abstract cont'd.	(Ref Zhur-Khim, 1957, 57648), XIII was obtained [HC, yield 57%, m.p. 178-180° (decomposition; from alcohol-ether)], and from Ls-VI, VII was obtained, with yield of 92%, m.p. 142-143° (decomposition), $[\alpha]D +35^\circ$ (c 1; dioxane); HC, yield 89%, m.p. 174-175° (decomposition; from alcohol-ether), $[\alpha]D -18^\circ$ (c 2; 1 n. HCl). 0.58 g. of VII in 10 ml. of absolute tetrahydrofuran is mixed for four hours at about 20° with 0.33 g. of anhydrous LiI and 0.09 g. of 95% NaBH ₄ , left standing for about 12 hours.
Card:	9/11

Country :	G
Category :	
Mon. Jour. : Ref Zhar - Khim., no 5, 1959,	No. 15545
Author :	
Institut. :	
Title :	
Origi. Pub. :	
Abstract cont'd.	: L ₅ -I is heated for one hour with 5 ml. of 2 n. HCl (about 100°), and L ₅ -VI is separated out with the acetate of sodium, with yield of 56%, m.p. 203-204° (decomposition), [α]D -38° (c 1; 1 n. HCl). HCl gas (-10°, one hour) is passed through a solution of 1.24 g. of L ₅ -I in 30 ml. of absolute alcohol, saturated with HCl, and L ₅ -V is separated out, with yield of 83%, m.p. 124-125° (from water), [α]D +28° (c 1; alcohol). Analogously, from O-methyl-threo-β-phenylserine
Date:	8/11

Country :	G
Category :	
Abs. Jour :	Ref Zaur - Khim., No 5, 1959, No. 15545
Author :	
Institut. :	
Title :	
Orig. Pub. :	
Abstract cont'd.	: 235-236° (decomposition), $[\alpha]D +8^\circ$ (c 1; 80% CH ₃ OH); from the mother liquor, the salt of D _g -I is separated out, with yield of 76%, m.p. 126-127° (decomposition; from aqueous CH ₃ OH), $[\alpha]D +26^\circ$ (c 1; 80% CH ₃ OH). By mixing with 0.5 NaOH at about 20°, the salts are transformed, respectively, into L _s -I, with yield of 84%, m.p. 191-192° (decomposition), $[\alpha]D +43^\circ$ (c 2; 0.1 n. NaOH) and D _g -I, m.p. 190-191° (decomposition), $[\alpha]D -43^\circ$ (c 2; 0.1 n. NaOH). 1 g. of
Date:	7/11

Country :
 Category :

G

Ref. Date : Ref Zhar - Khim., No 5, 1959, No. 15545

Author :
 Institution :
 File :

Orig. Pub. :

Abstract : of XI (8 hours with 2 n. HCl at about 100°), VI is obtained, with yield of 62%, m.p. 184-185° (decomposition). A solution of 0.38 g. of VI in 1.9 ml. of 1 n. NaOH is agitated for 15 minutes at about 0° with 0.38 ml. of $(CH_3CO)_2O$; by acidification with HCl, I is precipitated, with yield of 66.5%. 8.48 g. of I and 12.4 g. of anhydrous IV are dissolved in 216 ml. of boiling CH_3OH ; after chilling, brucine salt of L_g-I is precipitated, with yield of 87.5%, m.p.

Card: 6/11

G - 96

Country : G
Category :

Abs. descr : Ref Zhar - Khim., No 5, 1959, No. 15545

Author :
Institut. :
Title :

Oriz. Pub. :

Abstract cont'd. : into 300 g. of ice, and 75 g. of NaHCO_3 are added, with yield of V of 11.33 g., m.p. $181-182^\circ$ (from alcohol). Analogously, by nitration of X, XI is obtained, with yield of 83.5%, m.p. $121-123^\circ$ (from aqueous alcohol). 5 g. of V and 19 ml. of 1 n. NaOH are heated for 15 minutes at about 100° and by acidification with concentrated HCl, I is precipitated, with yield of 87.5%, m.p. $209-210^\circ$ (reprecipitation from 10% NaHCO_3 with 1 n. HCl). By saponification

cont:

5/11

Country : G
Category :
Author :
Institution :
Title : Ref Zmir - Khim., No 5, 1959,

No. 15545

Original Pub. :

Abstract : acids. 20 g. of hydrochloride (HC) of VIII,
cont'd. 50 ml. of CH_3COOH and 30 ml. of CH_3COCl are
heated for one hour at 50° , with 78% yield of
HC of IX, m.p. $168-170^\circ$ (decomposition). 50 g.
of HC of VIII are boiled for one hour with 200
ml. of $(\text{CH}_3\text{CO})_2\text{O}$ and poured into water, with
yield of 44.13 g. of X, m.p. $173-174^\circ$ (from
alcohol). 12 g. of HC of IX are added to 48
ml. of concentrated HNO_3 (for 15 minutes,
 -15°), mixed for 30 minutes at -10° , poured

Card: 4/11

Country :
Category :

G

Abstr. Date : Ref Zinser - Klem., No 2, 1959. No. 15545

Author :
Institut. :
Title :

Crit; Pub. :

Abstract cont'd. : to I. By an analogous method, EE of O-methyl-threo- β -phenylserine (XI), through O-methyl derivatives of I and VII (XIII and XIV), is transformed into threo-1-p-nitrophenyl-1-methoxy-2-aminopropanol-3 (XV). Since the configurations of L_S-VIII and of L_S-(-)-threonine are identical (Vogler, K., Helv. chim. acta, 1950, 33, 2111), the transformations described present a new confirmation of the stereochemical bond between III and the natural amino

Card: 3/11

Country :
Category :

G

U.S. Corp : Ref Zhar - Khim., No 5, 1959, No. 15545

Author :
Institut. :
Title :

Pub. Pub. :

Abstract : and EE of L_s-VI (VII). I is synthesized from
cont'd. EE of threo- β -phenylserine (VIII) by acetylation to O-acetyl derivative (IX), which after nitration is rearranged in an alkaline medium in V and is then oxidized to I. Another method of synthesizing I consists in the transformation of VIII into O,N-diacetyl derivative (X), nitration of X to EE of O,N-diacetyl-threo- β -p-nitrophenylserine (XI), saponification of the latter to VI and acetylation of VI

Date: 2/11

Country	: HUNGARY	G
Category	: Organic Chemistry. Natural Substances and Their Synthetic Analogs	
Abs. Jour	: Ref Zbir - Khim., No 5, 1959, No. 15545	
Author	: Hajos, A.; Kollonitsch, J.	
Institut.	: Hungarian AS	
Title	: Investigations Concerning Chloramphenicol. V. On Threo- β -p-Nitrophenylserine	
Orig. Pub.	: Acta chim. Acad. scient. hung., 1958, 15, No 2, 175-181	
Abstract	: A transformation of N-acetyl-threo- β -p-nitro-phenylserine (I) into Dg-(—)-threo-1-p-nitro-phenyl-2-aminopropanediol-1,3 (II), which is the basis corresponding to chloramphenicol (III), was accomplished. By means of brucine (IV), I is cleaved into optical antipodes and L _S -I is converted into ethyl ether (EE) or L _S -I (L _S -V), the latter is reduced to II by NaBH ₄ . II is obtained from L _S -I also through L _S -($\frac{4}{4}$)-threo- β -p-nitrophenylserine (L _S -VI)	

Hajos, A.; Tollenitsch, J.

Synthetic examinations in connection with chloramphenicol. VII. retrograde aldol condensation in the treo- β -nitrophenylserine-ester series. p. 445.

Magyar Tudomanyos Akademis. Kereliai Tudomanyok Szatalya. MTA. MKI.
Budapest, Hungary, Vol. 10, No. 4, 1959

Monthly List of East European Accessions (MEKA) LC, Vol. 8, No. 7, July 1959
Uncl.

COUNTRY :	Hungary	8-3
CATEGORY :		
ABS. JOUR. :	KZKhim., No. 21 1959, No.	75066
AUTHOR :		
TITLE :		
CRIG. PUB. :		
ABSTRACT :	<p>(8-17-1) led to the separation of arginine from three β-hydroxyarginine; e.g. for the former is 0.410 and for the latter, 0.315. It is of interest to note that the effectiveness of mixtures of phenol-water and ethanol-CH_3COOH-water in the separation of ordinary amino acids was not found to hold true for the studies described above. For Communication VI see KZKhim, 1959, No. 3, 77-84; No. 11, 109-111.</p> <p>S. Sonnenfeld</p>	

NAME: Sonnenfeld

5

J. M. G. PUBL. 3

ABSTRACT : derivative, yield 1.02 gm, mp 194-196° (decomp). The addition of 0.9 gm of the ME of DL-erythro- β -*p*-nitrophenylserape to a solution of 0.56 gm D-tartaric acid in 4.5 ml CH_3OH at 0°C gives the racemic tartrate, yield 1.14 gm, mp 144-145°, $[\alpha]_D +17^\circ$ ($c = 1$; water). The same starting material with a solution of 0.2 gm D-tartaric acid in 100 ml CH_3OH (2 hrs, 60°) gives a Schiff base, mp 163-164°. Paper chromatography using a mixture of N-butanol-acetone-conc NH_4OH -water

CARD: 15/16

145

COUNTRY : Hungary G-3
CATEGORY :
ABS. JOUR. : RZhim., No. 21 1959, No. 25066
AUTHOR :
TITLE :
SUBJECT :
ORIG. PUB. :
ABSTRACT : heating with 5 ml $(\text{CH}_3\text{CO})_2\text{O}$ (70° , 30 min) gives 0.75 gms DL-acetyl- α - β -dihydroxy- β - γ -nitrophenylserine, mp $132-135^\circ$ (decomp), $\text{TX} 10 + \text{H}^2$ (10° , 1 hr in 0.1 N NaOH). A suspension of 2 gm. V in 50 ml water on treatment with 0.5 gm BaCO_3 (2 hrs, 20°) gives the Me of DL-acetoxy- β - γ -nitrophenylserine, yield 1.16 gms, mp $115-116^\circ$ (decomp from alc and petroleum ether). refluxing 1 gr DL-acetoxy- β - γ -nitrophenylserine with 5 ml NaBH_4 (1 hr) in the cold gives the hydroxide

(C.I.D.: 14A6)

SEARCHED : Hungary
CATALOGED :

DEC. 1, 1994 : Rakhim., No. 21 1959, No. 7056

INDEXED :
FILED :
SERIALIZED :

CARD: 13/16

ABSTRACT : NaOH to pH 4; mp 203-205° (decomp), $\Delta^2\text{-oxo-} \beta\text{-d}\alpha\text{-furanone}$ ($\alpha = 1.1$; 1 N HCl). A solution of 50 gms I ($\alpha = 1.1$; 1 N HCl) in 80 ml CH_3COOH is treated dropwise with 10 ml $(\text{CH}_3\text{COO})_2\text{O}$; after 30 min, 46.9 gms of β -acetyl- $\Delta^2\text{-oxo-} \beta\text{-d}\alpha\text{-furanone}$ obtained, mp 177-178°, $\Delta^2\text{-oxo-} \beta\text{-d}\alpha\text{-furanone}$ ($\alpha = 1$; 1 N HCl). A solution of 10 gms VIII in 15 ml pyridine on standing after addition of $(\text{CH}_3\text{COO})_2\text{O}$ gives 7.5 gms 2-methyl-4-p-nitrobenzyl- $\Delta^2\text{-oxazolinone-5}$, mp 186-187° (from NaCl_2). A solution of 4 gms VIII in 25 ml 1 N NaCN on

CARD: 13/16

COUNTRY :	Hungary	G-5
CATEGORY :		
ARS. JOUR. :	Zsizhia, no. 10 (1970), no.	75000
EDITOR :		
DATE :		
FILE :		
ORIG. PUB. :		
REMARKS :	<p>Neutralization with 0.6 ml glacial acetic acid and 1.0 ml 10% NaOH (decomp). 2 gm of the <i>ME</i> L (+)-β-nitrophenylserine are stirred with 1.5 ml 1 N NaOH (30 min, 20°); neutralization with 0.6 ml glacial CH₃COOH gives 1.4 gm L (-)-threo-β-nitrophenylserine (VIII), mp 204-206° (decomp), $\Delta\text{D}^{25} +38^\circ$ ($c = 1$; 1 N HCl). The same product is obtained (19.15 gms) by the azeotropic distillation of 20 gms L (-)-I in 100 ml 5 N HCl by refluxing for 6 hrs followed by neutralization with 10 N</p>	
NAME:	K2A6	

COUNTRY	:	Hungary	G-3
CONFIDENTIAL	:		
NAME, I. S. N.	:	RZKHN., No. 2, 1959, Po.	72036
EDITOR	:		
TEXT	:		
PUBLISHER	:		
ORIGIN, PUB.	:		
ABSTRACT	:	<p>mixture of 2 gms 9, 20 ml water, and 1 ml 10 N NaOH is shaken at 0° (10 min); following the addition of 0.5 ml glacial C₂H₅COOH (to pH 6), 1.17 gms of DL-erythro-β-p-nitrophenylserine is obtained, mp 175-177° (decomp). Heating 2 gm 7.5% with 20 ml 5 N HCl (4.5 hrs) over a water bath at pH 6 (10 ml 10 N NaOH) gives 1.43 gm DL-threo-β-p-nitrophenylserine, mp 187-188° (decomp). The same product is obtained by stirring 2 gms DL-I (30 min) with 15 ml 1 N NaOH, followed by</p>	
CARD:	11/16		
		145	

COUNTRY :	Hungary	G-3
CATEGORY :		
ABS. JOUR. :	RZhkhim., No. 21 1959, No.	75066
AUTHOR :		
TITLE :		
ORIG. PUB. :		
ABSTRACT :	<p>is stirred with 5 ml SOCl_2 (20 min, 0°) and 6 ml 10% NaHCO_3 are added dropwise; after standing for 30 min at 0°, the solution is treated with an additional 25 ml 10% NaHCO_3 to pH 9; 0.95 gms <i>N</i>-acetyl-DL-I (VII) is obtained, mp 197-198°. 9.7 gms IV are added to 30 ml SOCl_2 at 0°; the solution freezes at first and on addition of 50 ml ether gives 6.39 gms of the KE of α-<i>p</i>-nitrobenzal-β-amino-β-<i>p</i>-nitropropenyl-β-valeropropionic acid, mp 170-171° (decomp). A</p>	
DATE:	1966	

NAME:	HUNGARY	Hungary
ADDRESS:		
TEL. NO.:	BUKAREST, No. 114-1950, Tel.	Romania
TELEGRAM:		
TELE.:		
TELE. PUS.:		
ABSTRACT:	conditions gives the corresponding ethyl ester, mp 100-102° (decomp). Refluxing of 1 gm of the latter product with 5 ml $(\text{CH}_3\text{CO})_2\text{O}$ at 140° for 1 hr gives 0.77 gm N-O-acetyl derivative, mp 139-141° (from alc). A suspension of 0.50 gm V in 100 ml water is treated at 10° with 5 ml $(\text{CH}_3\text{CO})_2\text{O}$ and 50 ml 10% NaHCO_3 (15 min, vigorous stirring); after 30 min, 3.25 gms of the 4E of N-acetyl-DL-erythro- β -p-nitrophenylserine (VI) are obtained, mp 138-140° (from alc). 1 gm VI	
CARD#:	9/16	147

COUNTRY :	France	G-3
CATEGORY :		
ABSTRACT JOUR. :	AZWhin., No. 21, 1959, No.	75066
EDITOR :		
TYPE :		
ORIG. PUB. :		
ABSTRACT :	<p>1,5-ditrocampho-α-(-)-lactone is obtained, mp 145-147° (from ether, α-parafin), $[\chi]_D^{25} = -51^\circ$ ($c = 1$; dioxane). 1,5-ditro-IV are refluxed 1 hr with 10 ml 2N HCl in CH_3OH; on cooling, 2.4 gms of the hydrochloride of the M of DL-erythro-β-pentacetoxyisergide (VI) are obtained, mp 167-168° (from water); refluxing of the residue obtained by evaporating to dryness the mother liquor in 10 ml 2N HCl (1 hr) gives 1.61 gm. 1,5-ditro-IV in CH_3OH; the use of acetic-HCl under similar</p>	
SEARCHED:	146	

COUNTRY	:	Hungary	3-3
COLLECTOR	:		
DATE	:	Aug. 1959.	No. 78066
AUTHOR	:		
TIME	:		
TYPE	:		
CLASS	:		
ABSTRACT	:	<p>After distillation at pH 8 (15 additional ml H_2O_2) gives 5.46 gms racemic I, mp 170-174° (d-comp). The base IV has also been prepared (24.15 gms) by the addition of 10.72 gms of the ME of glycine to a solution of 36.0 gms of γ-$\text{Na}_2\text{C}_4\text{H}_4\text{CHO}$ in 100 ml CH_3OH. A solution of 2 gms in (+)-I in 400 ml CH_3OH, is treated with vigorous shaking with 5.5 gms p-$\text{NO}_2\text{C}_6\text{H}_4\text{CHO}$ and 4.5 gms Na_2SO_4; after standing for 3 days, filtering, and distillation of the CHCl_3 under vacuum, 6.80 gms</p>	
CARD:	7716	1st	

COUNTRY :	Hungary	8-3
CATEGORY :		
ABS. JOUR. :	RZhkhim., No. 21 1959, No.	75066
AUTHOR :		
TITLE :		
ORIG. PUB. :		
ABSTRACT :	<p>On amp (benzyl)² (decom). A solution of 10 g. 4-nitro-α-methyl-β-phenylbenzoate + 30 ml acetone is stirred for 5 min at 10°; 1.5 g. gpm of aqueous 10% aqueously reactive Na of α-nitrobenzoat-β-acetylo-β-α-nitrophenoxyisopropyl (IV), mp 160-161° (from chloroform-ether), are obtained. Addition of 40 ml conc HCl to the mother liquor from the separation of IV isolates by distillation of the CH₂Cl at pH 5 (vacuum, 40°) after addition of 1.5 ml conc NaOH gives a second product. </p>	
SERIALIZED:	6/16	

REF ID:	:	Hungary	d-5
ORIGIN:	:		
ACT. DATE:	:	RZKHM., No. 21 1959, No. 565	
EDITOR:	:		
PAGE:	:		
TYPE:	:		
CLASS: PRO	:		
ABSTRACT	:	<p>following the addition of 500 ml ice water and stirring for 1 hr at 10°, 54.52 gms of a mixture are obtained at 40°, mp 47-41°; the mother liquor on addition of 25 ml conc H₂SO₄ gives 35 gms of racemic 1, mp 125-127° (decomp). The initial crop of crystals on dissolution in 100 ml water and treatment with 2.5 ml conc H₂SO₄ followed by steam distillation gives 26 gms HO-C₆H₄CHO; acidification of the residue from the distillation to pH 6 gives 0.5 gms erythro-β-p-nitrophenylser-</p>	
CARD:	5/16		145

COUNTRY :	Hungary	G-3
CATEGORY :		
ABSTRACT JOUR. :	ZKhim., do. Pl. 1950, no.	75046
ART. NO. :		
TYPE :		
TITLE :		
ORIG. PUB. :		
ABSTRACT :	<p>2.5 ml 10% Na₂CO₃ solution with cooling from 25 to 15-16°, the products are filtered and dried (from II), mp 134-135° (decomp), 1X10+10° (c = 1; dioxane), and D₂₀-D₂₅ (from II), mp 137-138° (decomp), 1X10-20° (c = 2; dioxane) and +22° (c = 2; 1 N HCl). 100 mg of optically active 1 are added to a mixture of ethanol (anhydrous) and 100 ml water at 50° (5 min, vigorous shaking); the mixture is stirred some more (50°, 5 min), and 60 ml 10% Na₂CO₃ are added with cooling (ice).</p>	
REFD.:	n/15	

Country:	Bulgary	6-5
Journal:	:	
Page No.:	RRZhim., No. 21 1959, No.	75066
Author:	:	
Date:	:	
Editor:	:	
Editor, sup.:	:	
ABSTRACT:	added to a solution of 200 gms tartaric acid in 1000 ml CH_3OH at 50° , and the solution is heated for 1 hr; the crystals forming at 50° (216.5 gms) were found to be the D-tartrate of L ₃ (-)-I (II), m.p 165-165° (decomp), $[\alpha]^{10} -5^\circ$ (c = 2; water). The mother liquor from the last step gives 165 gms of the tartrate of L(+)-I (III), m.p 160-160° (from water), $[\alpha]^{10} +25^\circ$ (c = 2; water). When a solution of 200.0 gms II (or III) in 1500 ml water (50°) is treated with	
CARD:	3/16	159

COUNTRY :	Hungary	G-3
CATEGORY :		
ABS. JOUR. :	MKhim., No. 21 1950, No.	75066
ABSTRACT :		
ORIG. PUB. :		
ABSTRACT :	<p>active I is also given. 350 gms DL-threo-β- α-nitrophenylis-rene and 150 ml of 10% acetic acid <i>HCl</i> are mixed for 10 min and refluxed for 1 hr at 80°; after 24 hrs, 577 gms of the hydrochloride of DL-I, mp 198-200°, are obtained. Purifi- cation of 410 gms of the product obtained in 2500 ml water at 50° with active charcoal and by the addition of 122 ml of conc NaOH + 400 ml water at 10° gives a precipitate of 317.1 gms DL-I, mp 140-141° (decorr). 352 gms DL-I are</p>	
SEARCH:	P/ 16	

300 PRL : Hungary
 C. T. K. 117 :
 JEL. JOUR. : RZKhim., No. 2, 1959, No. 759-15
 300 103 : Egoes, A. and Kolonitsch, J.
 100 50 : Hungarian Academy of Sciences
 300 113 : Glycerophenoxyl Studies. VII. Revertz Alcol
 Denomination of Esters of Threo- β -p-nitrobenzyl
 Serine
 300, PUB. : Maryar Ted Akad Kem Tud Oktat Kozei, 10, No. 4,
 300-466 (1958); Acta Chim Acad Sci Hung. 17,
 439 (1958).
 ABSTRACT : The authors have shown that the optically active
 methyl ester (I) of threo- β -p-nitrophenylserine
 (II) rearranges in aqueous alcohol to give
 the D,L of racemic DL-erythros and DL-threo- β -
 p-nitrobenzyl- β -p-nitrophenyl-serene and
 glycine. The course of the reaction leads the
 authors to conclude that an initial reverse
 aldol condensation is followed by the recombi-
 nation of the products. A simple procedure for
 the preparation (in good yields) of optically

CARD: 1/6 * No 4, 449-452 (1958)

HAJCS, A.; KOLLONITSCH, J.

Synthetic examinations in connection with chloramphenicol. VI. Side reaction at the Meerwein reduction of 1-p-nitrophenyl-2-acetamido-3-oxypropanone-1. p. 403.

Magyar Tudomanyos Akademia. Kemial Tudomanyok Osztalya. KOZLEMENYEI. Budapest, Hungary, Vol. 10, No. 4, 1958.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 7, July 1959
UNCL

Country :	Hungary	6-3
Category :		
Abs. Jour :		45967
Author :	<u>Sajos, A.</u> and Kalloniatis, J.	
Institut. :	Hungarian Academy of Sciences	
Title :	Investigations in the Field of Chlorophenols. V. O-Trieo- β -p-nitrophenylisocyanine	
Orig. Pub. :	Magyar Tud Akad Kem Fud Oszt Kozl, 10, No 2, 1957-162 (1959)	
Abstract :	See RZhKhim, No 9, 1959, 15645.	

Card: 1/1

HUNGARY/Organic Chemistry - Natural Compounds and Their
Synthetic Analogs.

G.

Abs Jour : Ref Zhur - Khimiya, No 16, 1958, 54116

Similarly, the D-(-)-threo-isomer is obtained with dibenzoyl-tartric acid. Upon saponification with 50% HBr, both compounds are converted to D-(-) or L-(+)-1-(p-nitrophenyl)-2-amino-1,3-dihydroxypropane (III) respectively. Chloroamphenicol was formed from the acylation of III with 1,1-dichloro- or 1,1,3,3-tetrachloroacetoacetic ester (after boiling in dioxane for 2.5 hours), m. p. 150°C.

Card 5/5

25-

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Abs Jour : Ref Zhur - Khimiya, No 16, 1958, 54116

Two grams of Ia is added to a mixture of 60 ml of fuming nitric acid plus 3.4 mo of acetic anhydride, at -2 °C. to +2°C., and after 15 minutes, the contents are poured on ice (plus NaHCO₃), and extracted with chloroform. 2.02 grams of threo-1-p-nitrophenyl-2-amino-1,3-dimethoxypropane (IIa), was obtained, m. p. 129-130°C. (from alcohol). The deacylation of 5.1 grams of IIa (50 ml of 5 N HCl) produced 3.9 grams of threo-1-p-nitrophenyl-2-amino-1,3-dimethoxypropane (II). Demethylation (with 50% HBr) of II produced threo-1-p-nitrophenyl-2-amino-1,3-dihydroxypropane. When 3.9 grams of II is heated with 6.1 grams of dibenzoyl-d-tartric acid in 150 ml of absolute alcohol, the dibenzoyl-d-tartrate of optically pure L-(+)-threo-1-p-nitrophenyl-2-amino-1,3-dimethoxypropane is obtained, m. p. 194-195°C., [α]D -60°(c 1, 30% alcohol).

Card 4/5

HUNGARY/Organic Chemistry - Natural Compounds and Their
Synthetic Analogs.

G.

Abs Jour : Ref Zhur - Khimiya, No 16, 1958, 54116

at 180-190°C. The residue obtained after evaporation was acidified and extracted with chloroform. Thus, threo-1-phenyl-2-amino-1,3-dimethoxypropane (I) was obtained, b. p. 109-110°C./3 mm.; N-p-nitrobenzoate, m. p. 129-130°C. Five grams of (I) was dissolved in 10 ml of acetic anhydride and was evaporated. The residue was heated for 1.5 hours at 50°C. The remainder was vacuum dried followed by boiling in ethyl acetate. Thus, 3.12 grams of crude threo-1-phenyl-2-acetamino-1,3-dimethoxypropane (Ia) was obtained, m. p. 57-98°C. (from ethyl acetate). To confirm the threo-configuration by some other method, the threo-1-phenyl-2-acetamino-1,3-dihydroxypropane was repeatedly methylated with methyl iodide in the presence of Ag₂O. The product obtained, m. p. 90-92°C, (from ether), did not produce a melting point depression when mixed with Ia.

Card 3/5

24

HUNGARY/Organic Chemistry - Natural Compounds and Their
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Abs Jour : Ref Zhur - Khimiya, No 16, 1958, 54116

by esterification with a trityl group, dehydrohalogenation instead of ammonolysis takes place, and the derivatives of 1-phenyl-1-methoxy-3-trityl hydroxy-1,2-propene are formed. In the synthesis described below, the hydroxyl group was protected with a CH_3 group. The ethers of cinnamic alcohol were used as starting materials. 108 grams of bromine was added over a period of two hours to 100 grams of $\text{C}_6\text{H}_5\text{CH}=\text{CHCH}_2\text{OCH}_3$ in 800 ml of methanol containing 81

grams of PbO . After removing Pb^{2+} with hydrogen sulfide, 132.5 grams of erythro-1-phenyl-2-bromo-1,3-dimethoxypropane was obtained, n. p. 122-124°C./3 mm. A mixture of 40 grams of this product in 80 ml of absolute alcohol plus 60 ml of liquid ammonia and a few crystals of potassium iodide were heated in a bomb for 35 hours

Card 2/5

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HUNGARY/Organic Chemistry - Natural Compounds and Their
Synthetic Analogs.

G.

Abs Jour : Ref Zhur - Khimiya, No 16, 1958, 54116

Author : Gabor, Kollonich, Khayosh

Inst : Academy Kem.

Title : A Study of the Preparation of Chloramphenicol. IV. A
New Synthesis of Chloramphenicol.

Orig Pub : Magyar tud. akad. Kem. tud. oszt. kozl., 1957, 8, No 2-
3, 241-245

Abstract : The reaction of 1-phenyl-1-methoxy-2-halogen-3-hydroxy-
propane or its acyl derivatives with ammonia or potas-
sium phthalimide (see R. Zh. Khim. 1957, 63650), leads
to the formation of derivatives of 1-phenyl-1-methoxy-
-2-hydroxy-3-aminopropane (probably through 2-3 eposides)
When the hydroxyl group in the 3-position is protected

Card 1/5

23

HUNGARY/Organic Chemistry - Natural Compounds and Their
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G.

Abs Jour : Ref Zhur - Khimiya, No 16, 1958, 54115

Upon reducing six grams of IV, according to Meerwein's technique, 4.5 grams of oily crystals were obtained, and after a purification - 1.5 grams of D_g-(+)-erythro-1-p-nitrophenyl-2-acetamido-1,3-dihydroxypropan (VIII), was obtained, m. p. 190-192°C. (from alcohol), [α]_D + 9°(c 1; dioxane). In a similiar way, one gram of IVa formed 0.26 grams of D_g-(+)-erythro-1-p-nitrophenyl-2-benzamido-3-benzohydroxy-1-hydroxypropane, m. p. 188-189°C. (from alcohol), [α]_D + 38°(c 1; pyridine). The treatment of one gram of VIII with SOCl₂ produced 0.4 grams of the d-base of starting material I, m. p. 162-163°C., [α]_D + 28°(c 1; HCl). Communication II, see Ref. Zh. Khim., 1957, 63650.

Card 7/7

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Synthetic Analogs.

G.

Abs Jour : Ref Zhur - Khimiya, No 16, 1958, 54115

Upon treatment with sodium acetate in methanol, 0.42 grams of IVa produced 0.22 grams of a product melting at 139-141°C. (from alcohol); 0.5 grams of IVa in pyridine gave 0.28 grams of a product melting at 138-140°C. They were both identical with the 1-p-nitro-phenyl-2-benzamidopropen-2-on-1. The same product (0.34 grams) was obtained when 0.5 grams of 1-p-nitro-phenyl-2-benzamido-3-hydroxypropanone-1 was treated with a mixture of pyridine and acetic anhydride, m. p. 138-140°C. (from alcohol). Similarly, 0.37 grams of product was obtained from 0.6 grams of IV in pyridine, and 0.51 grams of 1-p-nitrophenyl-2-acetamidopropene-2-on-1 was formed when 1 gram of IV was reacted with sodium acetate in glacial acetic acid, m. p. 120-123°C. and 124-126°C. (both from alcohol).

Card 6/7

22

HUNGARY/Organic Chemistry - Natural Compounds and Their
Synthetic Analogs.

G.

Abs Jour : Ref Zhur - Khimiya, No 16, 1958, 54115

Meerwein's technique), racemization also occurred with the formation of 1.4 grams of threo-1-p-nitrophenyl-2-acetamido-1,3-dihydroxypropane, m. p. 164-166°C. (from ethyl acetate). The reaction of 5 grams of I with C_6H_5COCl gave 4.1 grams of L_g-(+)-threo-1-p-nitrophenyl-1²hydroxy-2-benzamido-3-benzohydroxypropane (IIIa), m. p. 175-176°C., $[\alpha]_D + 24^\circ$ (c 2; chloroform). The reaction of 12.6 grams of IIIa with $Na_2Cr_2O_7$ gave 10.2 grams of crude D_s-(+)-1-p-nitrophenyl-2-benzamido-3-benzohydroxypropanone-1 (IVa). The purified product (4.76 grams) melted at 142-143°C. (from alcohol), $[\alpha]_D + 16^\circ$ (c 2; chloroform). When an attempt was made to racemize 0.5 grams of IV with sodium acetate in glacial acetic acid, only 0.28 grams of an optically inactive product (m. p. 141-142°C. (from alcohol)), was obtained instead of the racemic compound.

Card 5/7

HUNGARY/Organic Chemistry - Natural Compounds and Their
Synthetic Analogs.

G.

Abs Jour : Ref Zhur - Khimiya, No 16, 1958. 54115

5N NaCl on a water bath. In both instances the reaction probably proceeds thru a ketimide from a resulting enamine: $-\text{C}(\text{NH}_2)=\text{CH}_2 \rightarrow -\text{C}(\text{=NH})\text{CH}_3 \text{C}(=\text{O})-\text{OH}_3^+$.

The acetylation of V with acetic anhydride in the presence of sodium acetate (when V is prepared from IV and not isolated), gave D,L-(-)-1-p-nitrophenyl-2-acetamido-3-hydroxypropanone-1 (VI) (1.79 grams of VI from 3 grams of IV), m. p. 149-151°C., $[\alpha]_D^{25} -18^\circ$ (c 2; alcohol). This compound is easily racemized, even at 20°C., by the action of sodium acetate in acetic acid, and thus, from 1.62 grams of VI, 1.5 grams of threo-1-p-nitrophenyl-2-acetamido-3-dihydroxypropane (VII) was prepared, m. p. 148-149°C. One gram of VI in pyridine gave 0.6 grams of VII, m. p. 167-168°C. (decomposes). When 4.7 grams of VI was reduced (according to the

Card 4/7

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Abs Jour : Ref Zhur - Khimiya, No 16, 1958, 54115

-hydroxy-2-amido-3-acetohydroxypropane (III), m. p. 104-108°C., $[\alpha]_D^{25} -7^{\circ}$ (c 5, 50% alcohol). After this product was heated on a water bath, a melting point of 132-134°C. was obtained.

The oxidation of 58.7 grams of III with $\text{Na}_2\text{Cr}_2\text{O}_7$ resulted in the formation of 38.9 grams of Ds-($\frac{2}{2}$)-1-p-nitrophenyl-2-acetoamido-3-aceto-hydroxypropanone-1 (IV), m. p. 147-148°C., $[\alpha]_D^{25} +21^{\circ}$ (c 2; chloroform).

The hydrolysis of 27.2 grams of IV (with 5 N HCl) gave 9.5 grams of Ds-($-$)-1-p-nitrophenyl-2-amino-3-hydroxypropanone-1-hydrochloride, (V) m. p. 203-204°C. (decomposes; from alcohol), $[\alpha]_D^{25} -59^{\circ}$ (c 2; 1N HCl). 1.84 grams of $p\text{-NO}_2\text{C}_6\text{H}_4\text{COCOCH}_3$ (Va) was formed as the side

product in this reaction m. p. 90-92°C. Va is also formed when V (0.7 grams) is heated for two hours with

Card 3/7

HUNGARY/Organic Chemistry - Natural Compounds and Their
Synthetic Analogs.

G.

Abs Jour : Ref Zhur - Khimiya, No 16, 1958, 54115

racemization, to prepare chloramphenicol (see, R. Zh. Khim., 1955, 37422). The substance decomposed with the evolution of ammonia when racemization of I was attempted (a) with basic alcoholates and sodamide similar to the racemization of ephedrine, or, (b) with basic alcoholates in the presence of catalysts (ketones), similar to the racemization of quinine. All subsequent experiments were carried out with a preliminary destruction of one of the asymmetric centers by oxidizing the secondary hydroxyl group to a keto group. The action of CH_3COOC_2 upon 10.6 grams of I produced 15.5 grams of L_g - $(+)$ -threo-1-p-nitrophenyl-1,3-diacetohydroxy-2-amino-propane hydrochloride, (II), m. p. 195-196°C. (decomp.), $[\alpha]_D + 18^\circ$ (c 2, water). The rearrangement of 14.75 grams of II in the presence of sodium bicarbonate produced 12.4 grams of L_g - $(-)$ -threo-1-p-nitrophenyl-1-

Card 2/7

30

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HUNGARY/Organic Chemistry - Natural Compounds and Their
Synthetic Analogs

G.

Abs Jour : Ref Zhur - Khimiya, No 16, 1958, 54115
Author : Kollonich, Khayosh
Inst : Academy Kem.
Title : Investigation of the Synthesis of Chloramphenicol. III.
Racemization of L_g-(+)-threo-1-paranitrophenyl-2-amino-
-1,3-dihydroxypropane.
Orig Pub : Magyar tud. akad. kem. tud. oszt. kozl., 1957, 8, No 2-
3, 233-239
Abstract : L_g-threo-p-nitrophenyl-2-amino-1,3-dihydroxypropane
(d-base of I) was formed as the side product from the
splitting of DL-threo-1-p-nitrophenyl-2-amino-1,3-di-
hydroxypropane. This product can be used, after

Card 1/7

N. W. Smith,¹ and J. C. D. Gaze,² for the synthesis of pentapeptides containing the amino acid, 2-amino-2-oxo-4-phenylbutanoic acid, and L. B. Hirschfelder,³ R. E. Roberts,³ and J. C. D. Gaze,² for the synthesis of a series of pentapeptides containing the amino acid, 2-amino-2-oxo-4-phenylbutanoic acid, and the effect of these peptides on the proliferation of tumor cells. The results of these investigations will be presented at the meeting.

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HAJOS, A.

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Chloramphenicol. III. Racemisation of L-(+)-threo-2-amino-1-p-nitrophenylpropane-1 : 3-diol. J. Kollaritsch and A. Hajos (*Acta chim. hung.*, 1955, 8, 271-282). A full description of the six-stage procedure for the racemisation of L-(+)-threo-2-amino-1-p-nitrophenylpropane-1 : 3-diol (I), the valuable by-product of the resolution of DL-threo-2-amino-1-p-nitrophenylpropane-1 : 3-diol, the racemic base of chloramphenicol. Treatment of I with AcCl and rearrangement of the resulting diacetate hydrochloride by Na₂CO₃ yields the N-acetyl 3-acetate (m.p. 102-104° from water, 132-138° from EtOH-light petroleum). Either dimorph of this is then oxidised with CrO₃ in acetone solution to D-(+)-2-acetamido-3-acetoxy-1-p-nitrophenylpropan-1-one (II), m.p. 147-148°, which is then hydrolysed with 5N-HCl to the amino-ketone hydrochloride, m.p. 204° (decomp.). This is acetylated *in situ* with NaOAc and Ac₂O to yield D-(+)-2-acetamido-3-hydroxy-1-p-nitrophenylpropan-1-one, m.p. 150-151°, which can be racemised easily in C₆H₅N solution at 20°. This ketone reduced by the Meerwein method yields DL-threo-2-acetamido-1-p-nitrophenylpropane-1 : 3-diol (30% yield), from which the DL form of I is obtained easily. On Meerwein reduction of II there is no racemisation, only the optically active *erythro*-compound being formed. The reaction mechanisms are discussed. (Cf. J.A.C. Abstr., 1955, i, 775).

W. J. BAKER

PM

HA 505. A.

✓ 18. Studies on chloramphenicol. II. Synthesis of 1-phenyl-3-aminopropane-1,2-diol derivatives. (In German) J. K. O. I. T. L. I. S. C. H. A. H. A. L. O. S. M. K. R. A. N. T. V. G. D. O. R. Acta Chimica Academiae Scientiarum Hungaricae. Vol. 6, 1955, No. 3-4, pp. 381-393, 2 figs.

Chem

The attempted synthesis of chloramphenicol starting from cinnamic alcohol and its derivatives led to the isomeric 1-(*p*-nitrophenyl)-3-dichloroacetamido-propane-1,2-diol compound instead. To obtain the suitable bromo-methylates the dibromo derivatives of *p*-nitro-cinnamic alcohol and its trityl ether were prepared as the first stage however upon treatment with sodium methoxide these compounds yielded unsaturated bromine derivatives instead of the desired compounds. Therefore a new method was elaborated which essentially consists in the addition of the elements of methyl hypobromite to the reaction mixture in the presence of yellow lead oxide. Ammonolysis of the trityl derivatives of the bromo-methylates obtained in this way yielded only the corresponding enol-ethers. The 3-phthalimidio derivatives were produced by fusing the bromo-methylate derivatives containing a free hydroxyl group with phthalimide potassium. Similar results were attained by treating the acyl derivatives in the same way. The compound 1-(*p*-nitrophenyl)-3-amino-propane-1,2-diol was prepared by way of demethylation of the corresponding deacetylated compound. The structure of this aminopropane-diol derivative was proved by the periodate oxidation of its *N*-*p*-nitrobenzoate derivative. The chloramphenicol isomeride obtained by the dichloroacetylation of the 1-(*p*-nitrophenyl)-3-amino-propane-1,2-diol compound showed no bacteriostatic activity.

PM *SR*

Moser reduction of II there is no racemization but the ester is hydrolyzed and gives the active *erythro*-monoacetate. I can be hydrolyzed with 5N HCl to *p*-(ω -*p*-NO₂C₆H₄COCH(NH₂Cl)CH₂O)I (IV), m. 203-4° (decomp.), $[\alpha]_D^{20} -60^\circ$ (c 2%, N HCl). $^P\text{O}_\text{N}(\text{C}_6\text{H}_4\text{CO})_2$ (V) is formed as a by-product in 10% yield, m. 90-2°. V can be prep'd. from III and IV with concd. HCl. IV must not be isolated but is acetylated *in situ* with Ac₂O-AcONa giving $[\alpha]_D^{20} -$ p -CH₃N₂H₂COCH(NHAc)CH₂OH (VI), m. 160-1°, $[\alpha]_D^{20} -20^\circ$ (c 2%, R₁OH). VI racemizes in C₆H₆N at room temp. in 60-70% yield, the by-product being III. VI yields DL-*threo*- p -O₂NCH₂CH(OH)CH(NHAc)CH₂OH by Meerwein reduction in 30% yield. The configuration of the compds. with 2 asym. C atoms is referred to the C atom bearing the OH group (g); the configuration of the compds. with 1 asym. C atom is referred to the C atom bearing the NH group (a).

W. M. Potts

HAJÓS, A.

HUNG 5

Racemization of $(+)$ -*trans*-2-*amino*-*p*-nitrophenylpropane-1,3-diol, J. Kolanitsch, A. Luchs, and V. Gaber (Research Inst. Pharm. Ind., Berlin), *Chemistry & Industry*, 1955, 38-40. $(+)$ -*trans*-2-*amino*-*p*- $\text{NO}_2\text{C}_6\text{H}_4\text{CH}(\text{OH})\text{CH}(\text{NHAc})\text{CH}_2\text{OH}$ with AgCl gives α - $\text{NO}_2\text{C}_6\text{H}_4\text{CH}(\text{Ac})\text{CH}(\text{NHAc})\text{CH}_2\text{OAc}$, m. 104-6° (decomp.), [α]_D 18° (c 2.76, water). NaOCO_2 rearranges it to α - $\text{NO}_2\text{C}_6\text{H}_4\text{CH}(\text{OH})\text{CH}(\text{NHAc})\text{CH}_2\text{OAc}$ (I) in 80% yield in 3 steps. I is diimorphous; m. 102-4° from water, 122-3° from alc.-light petr. The lower-melting form is converted into the higher-melting form by warming on the water bath. Both forms can be used in the next step. I with CrO_3 in Me_2CO gives β - $\text{O}_2\text{NCH}_2\text{COCH}(\text{NHAc})\text{CH}_2\text{OAc}$ (II), m. 147-8°, [α]_D 21° (+ 9%), CHCl_3 , yield 70%. β - $\text{NO}_2\text{C}_6\text{H}_4\text{CO}_2\text{H}$ is the by-product. Attempts to racemize II were unsuccessful. In CH_3N or $\text{AcOH}-\text{AcONa}$, AcOH splits off and α - $\text{NO}_2\text{C}_6\text{H}_4\text{CH}(\text{NHAc})\text{CH}_2\text{OAc}$ (III) is formed, m. 125-6°. On

(6 UER)

HATOS, A.

C4 ✓ New syntheses of chloramphenicol and its stereochemical relationship. L. Kollenbach, A. Hafner, V. Gähler, and M. Kraut (Bayer AG, Ludwigshafen, pharm. Res., Germany). *Experientia* 10, 488-9 (1954) (in German); cf. preceding abstr.—The three form of β -phenylserinol 3-Me ether (I) (N - β -nitrobenzoyl deriv., m. 170-81°) was obtained by LiAlH₄ reduction of the Et ester of the diastereoisomer of β -phenylserine Me ether (II) with the lower m.p. and by reduction of the phthalyl deriv. of II to β -phenyl-3-methoxy-2-phthalimidopropionaldehyde, followed by reduction with (iso-PrO)₂Al and dephthalimation with N₂H₄. From the *O,N*-di-Ac deriv. of I was derived β - β -nitrophenylserinol 3-Me ether (III), m. 82-4°, which was demethylated to *threo*-1-(β -nitrophenyl)-2-amino-1,3-dihydroxypropane (IV). Treatment of III with tartaric acid or dibenzoyltartaric acid produced the optical antipodes. The *L*-isomer of III, m. 105-7°, [α]_D -74° (1% in N HCl), was converted by demethylation to a compd. (V) apparently identical with the hydrolyzate of natural chloramphenicol (VI). Treatment of V with CHCl₃COOC₂H₅ gave a good yield of VI. The diastereoisomer of II with the higher m.p. was similarly reduced to obtain *erythro*- β -phenylserinol 3-Me ether (VII) (N - β -nitrobenzoyl deriv., m. 168-4°), which was converted to *erythro*-1-(β -nitrophenylserinol 3-Me ether, m. 110-11°). Demethylation of VII with aq. HBr resulted primarily in *erythro*- β -phenylserinol (VIII), with some *threo*- β -phenylserinol (IX). It was found that the conversion of

VIII to IX could be effected under the conditions used for methylation; however IX, *erythro*- β - β -nitrophenylserinol (*threo*- β - β -nitrophenylserinol (X) remained unchanged under these conditions. *trans*-Cinnamyl alc. Me ether was treated in EtOH with Br in the presence of PbO, yielding 1-phenyl-2-bromo-1,3-dimethoxypropane (XI), which was converted by ammonolysis to β -phenylserinol di-Me ether (XII) (N - β -benzoyl deriv., m. 129-30°). The *N*-Ac deriv. (XIII) was identical with the compd. obtained from the *N*-Ac of *threo*- β -phenylserinol by methylation with MeI and zinc oxide. XIII was nitrated, deacetylated, and demethylated to give X. From the results it is evident that ammonolysis of 2-phenyl-3-methoxy-2-bromopropionic acid (XIV) and XI gives diastereomeric amino derivs. although XI and XIV probably have the same configuration. It is suggested that this apparent contradiction can be explained by the "neighboring group effect."

D. S. Farmer

JANOS KOLLONITZ

in 20 ml. H₂O treated with 5 ml. 2*N* NaOH gives 0.78 g.
(+)-*threo*-1-*p*-nitrophenyl-1-methoxy-2-amino-3-hy-
droxypropane (XXXIII), m. 99° (from C₆H₆), [α]_D 68 (1%
soln. in *N* HCl). In a similar manner *(-)*-*threo*-1-*p*-nitro-
phenyl-1-methoxy-2-amino-3-hydroxypropane (XXXIV) is
prep'd., m. 105-7° (from C₆H₆ and H₂O), [α]_D -74° (1% soln.
N HCl). Heating 0.49 g. XXXIV with 5 ml. 50.8% HBr for
1 hr. followed by addn. of 10 ml. H₂O and further heating
under N gives 0.08 g. *(-)*-*threo*-1-*p*-nitrophenyl-2-amino-1,3-
dihydroxypropane (XXXV), m. and mixed m.p. 104-5° [α]_D
-23° (2% soln., *N* HCl). Heating 0.6 g. XXXIII with 6
ml. 50% HBr followed by addn. of 12 ml. H₂O and further
heating under N gives 0.07 g. *(+)*-*threo*-1-*p*-nitrophenyl-3-
amino-1,3-dihydroxypropane (XXXVI), m. and mixed m.p.
163-5° (from H₂O), [α]_D 29° (2% soln., *N* HCl). Heating
a soln. of 2.12 g. XXXV in 10 ml. abs. dioxane with 1.30 ml.
Cl(COCHCl)₂ gives good yield of chloramphenicol, m. and
mixed m.p. 151-2°, [α]_D 16° (4.0% soln., n.c.).

Henry B. Hustle

JANOS KALMUS
 ml. Ac₂O gives 12.6 g. (100%) XI acetate (XVII), m. 107-10°. Treatment of 32.0 ml. concd. HNO₃ (decolorized with NH₄SO₃H) with 12.91 g. XVII, added in small portions, gives 8.19 g. *erythro*-1-*p*-nitrophenyl-1-methoxy-3-phthalimido-3-acetoxypropans (XVIII), m. 142-4° (from abs. alc.). Heating 1.4 g. XVIII 12 hrs. with 28 ml. 5N HCl gives 0.04 g. *erythro*-1-*p*-nitrophenyl-1-methoxy-2-amino-3-hydroxypropane (XIX), rose-red crystals, m. 110° (from C₆H₆). Treatment of 0.3 g. XIX with 2 ml. 50% HBr and 5 ml. H₂O followed by extn. with EtOAc and treatment of the ext. with 1 ml. Ac₂O and 1 ml. pyridine gives 0.11 g. *erythro*-1-*p*-nitrophenyl-3-acetamido-1,3-dihydroxypropane diacetate (XX), m. and mixed m.p. 184-8° (from Et₂O). Refluxing 1200 ml. of satd. alc. HCl with 47.87 g. III and continued addition of HCl gas gives 40.26 g. *EI* *threo*-2-amino-3-phenyl-3-methoxypropionate-HCl (XXI), m. 183-4°. A soln. of 40.26 g. XXI in 150 ml. abs. MeOH treated with a soln. of 3.66 g. Na in 90 ml. MeOH gives 32 g. *EI* *threo*-2-amino-3-phenyl-3-methoxypropionate (XXII). A soln. of 32 g. XXII in 100 cc. abs. Et₂O treated with 8 g. LiAlH₄ in 300 ml. abs. Et₂O gives 25.76 g. *threo*-1-phenyl-1-methoxy-2-amino-3-hydroxypropane (XXIII) as an oil; *N*-*p*-nitrobenzoyl deriv., m. 170-81°. Treatment of 0.08 g. XXIII with 0.8 ml. 50% aq. HBr followed by 0.03 g. *p*-O₂NC₆H₄COCl gives 0.02 g. *"threo*-1-*p*-nitro-1-*p*-nitrophenyl-1-amino-1,3-dihydroxypropane bis-*p*-nitrobenzoate" (XXIV), m. and mixed m.p. 196-8°. A soln. of 19.39 g. XXIII in 35 ml. abs. pyridine treated with 90 ml. Ac₂O gives 23.38 g. *threo*-1-phenyl-1-methoxy-2-acetamido-3-acetoxypropane (XXV), m. 122-3°. To a mixt. of 4.8 ml. concd. HNO₃ and 40 ml. concd. H₂SO₄ at -10° is added a soln. of 23.38 g. XXV in 75 ml. CHCl₃, giving 30.89 g. of oil which heated 3 hrs. with 280 ml. 5% HCl, extd. with CHCl₃, the

solvent removed, and the residue treated with 10.1 g. BzOH gives 17.03 g. *benzoic acid salt of threo*-1-*p*-nitrophenyl-1-methoxy-3-amino-3-hydroxypropane (XXVI), m. 94-7° (from abs. alc.). Treating 12.6 g. XXVI with 75 ml. N NaOH gives 6.02 g. of the free base (XXVI), m. 82-4° (from H₂O). Heating 0.52 g. XXVI with 5.2 ml. 54% HBr gives, on addn. of 10N NaOH, a good yield of *threo*-1-*p*-nitrophenyl-2-amino-1,3-dihydroxypropane (XXVIII), m. and mixed m.p. 141-2°. Heating 2.03 g. XII with 11 ml. 54% HBr and heating the resulting hydrobromide with 40 ml. H₂O gives 1.12 g. of the demethylated base. A soln. of 0.08 g. of this base in 3 ml. abs. alc. treated with 0.40 g. BzOH gives 0.35 g. of mixed salts. Recrystn. of 0.8 g. of this product from 10 ml. abs. alc. gives 0.09 g. of XVI benzoic acid salt, m. 159-61°, and 0.14 g. of *erythro*-1-phenyl-2-amino-1,3-dihydroxypropane (XXIX) benzoic acid salt, m. 208-8°. Heating XXVII or *erythro*-1-*p*-nitrophenyl-2-amino-1,3-dihydroxypropane (XXX) with HBr produces no change in configuration. Heating 0.5 g. XXX-HCl with 5 ml. concd. HCl in a sealed tube at 100° gives 0.37 g. of oil which, dissolved in 1 ml. abs. alc. and treated with 0.27 g. BzOH, gives 0.39 g. of XVI benzoic acid salt, m. 162-3°. Heating XVI with HBr produces no change in configuration. A soln. of 1.4 g. *threo*-1-phenyl-1-hydroxy-2-acetamido-3-acetoxypropans (XXXI) in 70 ml. dry Me₂CO treated with 14 g. Ag₂O and 14 ml. MeI gives, when the process is repeated, 0.35 g. XXV, m. 118-20°, b.p. 140-50°. Boiling 4.52 g. XXVII with 7.52 g. *p*-(CH(OBz)CO₂H)₂ in 20 ml. abs. alc. gives, on fractional crystn. from abs. alc. 2.4 g. (+)-*threo*-1-*p*-nitrophenyl-1-methoxy-3-amino-3-hydroxypropane dibenzoate-*p*-tartrate, CaH₁₀N₂O₈ (XXXII), m. 104-5°, b.p. -44° (1% soln. in 60% alc.). A soln. of 2.25 g. XXXII

H A JOS, A

✓ Chloramphenicol series. I. A new synthesis of chloramphenicol. Janos Kollenitsch, A. Heids, V. Gabor, and C. M. Tamm (Research Inst. Pharm., Budapest). *Acta Chim. Acad. Sci. Hung.* 5, 12-32 (1952) (in German) (English summary).—A new method is reported for the PbO-catalyzed addn. of alkyl hypobromites to a double bond. To a suspension of 12 g. PbO in 100 ml. MeOH is added, alternately and in small portions, 5.2 ml. Br and a soln. of 14.8 g. PhCH₂CHCO₂H in 250 ml. MeOH; the mixt. cooled, stirred 1.5 hrs., and filtered. Removal of Pb salts with H₂S and concn. in vacuum gives 24.9 g. *erythro*-2-bromo-3-phenyl-3-methoxypropionic acid (I), m. 179-82°. A suspension of 24 g. PbO in 200 ml. MeOH treated similarly with 10.4 ml. Br and with a soln. of 32.4 g. PhCH₂CHCO₂Mg gives, after removal of Pb salts and vacuum concn., 41 g. *de* *erythro*-2-bromo-3-phenyl-3-methoxypropionate (II), m. 74-6°. Heating 82 g. *threo*-MeOCHPhCHBrCO₂H in a sealed tube at 80° for 12 hrs. with 800 ml. concd. NH₄OH gives 42.18 g. *threo*-2-amino-3-phenoxy-3-methoxypropionic acid (III), m. 228-30° (from alc.). Heating 20 g. I with 170 ml. concd. NH₄OH for 18 hrs. at 80° in a sealed tube gives 17.46 g. *erythro*-2-amino-3-phenyl-3-methoxypropionic acid (IV), m. 248-50° (from alc.). Heating 78.5 g. IV with 78.5 g. α -C₆H₅(CO₂H)₂ 15 min. at 100° gives 78 g. *erythro*-2-phthalimido-1-phenyl-3-methoxypropionic acid (V), m. 200-3° (from alc.). Heating 78 g. V with 70 g. PCl₅ in 800 ml. abs. C₆H₆ gives 73.0 g. *erythro*-2-phthalimido-3-phenyl-3-methoxypropionic chloride (VI), m. 195-6° (decomp.). Heating 5 g. VI with 6 ml. abs. pyridine and MeSH from 20 g. MeSC(NH)NH₂ and 30 ml. 5N NaOH in a sealed tube gives 2.58 g. *erythro*-2-phthalimido-3-phenyl-3-methoxypropionic acid methylimine ester (VII), m. 147-50°.

(from alc.). Heating a soln. of 0.46 g. VII in 60 ml. abs. alc. with 4 g. Raney Ni under N gives 0.08 g. product, C₁₂H₁₁O₃N (VIII), m. 185-70° (from alc.). To a suspension of 19.45 g. Pd-BaSO₄ in 400 ml. xylene is added 23.9 g. VI and 0.08 g. NH₂C₆H₅ and the mixt. treated with H₂ at 150°, giving *erythro*-2-phthalimido-3-phenyl-3-methoxypropionaldehyde (IX), m. 140-42°; *p*-nitrophenylhydrazone (X), m. 202-4°. A soln. of 23 g. IX in 250 ml. iso-PrOH heated with 13.1 g. Al(iso-PrO) gives 20.18 g. *erythro*-1-phenyl-1-methoxy-2-phthalimido-3-hydroxypropane (XI), white crystals, m. 104-8° (from Et₂O). A soln. of 5 g. XI in 20 ml. abs. alc. treated with 30 cc. N alc. soln. N₂H₄·H₂O gives 2.0 g. *erythro*-1-phenyl-1-methoxy-3-amino-3-hydroxypropane (XII), green oil; *p*-nitrobenzene (vide infra), m. 103-4°. Redistilling 3.35 g. IV with 80 ml. abs. alc. gives 4 g. *E* *erythro*-2-amino-3-phenyl-3-methoxypropionate-HCl (XIII), m. 168° (decomp.). A soln. of 2.03 g. XIII in 7 ml. MeOH treated with a soln. of 0.25 g. Na in 5 ml. MeOH gives 2.31 g. *E* *erythro*-2-amino-3-phenyl-3-methoxypropionate (XIV), as an oil. A soln. of 0.3 g. XIV in 100 ml. dry Et₂O treated with 1.67 g. LiAlH₄ in 57 ml. dry Et₂O gives 5.85 g. *erythro*-1-phenyl-1-methoxy-2-amino-3-hydroxypropane (XV) as an oil. A soln. of 0.2 g. XV in 10 ml. H₂O treated with 0.22 g. ρ -O₂NC₆H₄COCl in 10 ml. dry Et₂O and 4 ml. N NaOII gives 0.13 g. product which recrystd. from 00% alc. gives 0.09 g. *N*-*p*-nitrobenzoyl deriv. of XV, m. 103-4°. Heating 0.84 g. XV with 5 ml. 10% HBr gives 1.13 g. of oil *threo*-1-phenyl-2-amino-1,3-dihydroxypropane (XVI). A soln. of 0.2 g. of XVI in 0 ml. H₂O treated with a soln. of 0.11 g. *p*-O₂NC₆H₄COCl in 10 ml. Et₂O and with 4 ml. N NaOII gives 0.09 g. *N*-*p*-nitrobenzoyl deriv. of XVI, m. and m.p. 104° (from abs. alc.). A soln. of 11.3 g. XI in 20 ml. abs. pyridine treated with 11

S/123/62/000/008/012/016
A004/A101

Method of producing ceramics ...

crushed at 5 - 50 ton/cm² pressure and then roasted in a shielded atmosphere,
while the temperature is gradually increased.

A. Mazurkevich

[Abstracter's note: Complete translation)

Card 2/2

S/123/62/000/008/012/016
A004/A101

AUTHORS: Wrzosek, P., Michalik, N., Hajok, G.

TITLE: Method of producing ceramics for cutting-tool bits and other parts

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 8, 1962, 14, abstract
8B93 P (Zakłady Mechaniczne w Łabędach. Pol'sk. pat. kl. 40 b, 2,
no. 44249, 5.04.61)

TEXT: The method of producing ceramics for tool bits consists in that aluminum oxide powder is mixed with water, binders are added in the form of nitrates of silver, magnesium, cobalt, copper and others dissolved in water, and also molybdic and tungstic acid dissolved in ammonia, and silicic acid in the form of ordinary or colloidal solutions prepared in water or in other liquids in quantities up to 50% of the dry aluminum oxide powder weight. The solution obtained is dried while it is continuously stirred to ensure the crystallization of the finest particles of the binding additives. To precipitate the metal and the silicon carbides, the obtained product is roasted at 300 - 1,500°C. For final drying of the product and removal of the chemically bound water and gases (e.g. NO₂, SO₂, SO₃, Cl₂) it is, after a preliminary grinding and screening,

Card 1/2



FAFLOVA-CHALUPOVA, E.; HAJNY, J.

Result of local application of antibiotics on secondary flora in
empyemas due to mixed infection. Bratisl. lek. listy 34 no.1:
29-34 Ja '54.

1. Z II Interneho oddelenia (prim. dr. P. Michler) a z laboratorneho
oddelenia (prim. dr. V.P.Kurti) liecenne pre tbc, Vysne Hagy)
(ANTIBIOTICS, therapeutic use,
*empyema, pleural, eff. of local admin. on secondary flora)
(EMPYEMA, PLEURAL, therapy,
*antibiotics, eff. of local admin. on secondary flora)

HAJMSEK, Franjo, dr.

Nocturnal non-convulsive epileptic seizures. (Clinical and
electroencephalographic studies. Lijecn. vjesn. 86 no.10:
1175-1194 0 ' 64.

1. Iz Neuropsihijatrijske klinike Medicinskog fakulteta u
Zagrebu.

HAJNSEK,F.; ZESKOV,P.; HRCKO,N.

Electroencephalographic changes in hydrocephalus of non-neoplastic origin. Neuropsihijatrija 11 no.1:39-47 '63

1. Iz Neurološko-psihijatrijske klinike (predstojnik: prof.dr. R.Lopasic) i Klinike za djecje bolesti Med. fakulteta u Zagrebu (predstojnik: prof.dr.P.Erak).

HAJNSEK, Franjo, dr.

Current status of the treatment of epilepsy. Lijecn. vjesn. 83
no.8:801-806 '61.

1. Iz Neurolosko-psihijatrijske klinike Medicinskog fakulteta u
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(EPILEPSY ther)

HAJNSEK, F.; BOHACEK, N.

Our experience with therapy of some refractory forms of epilepsy
with Ospolot. Neuropsihijatrija 9 no.4:316-324 '61.

1. Iz Neurolosko-psihijatrijske klinike Medicinskog fakulteta u Zagrebu
(Predstojnik: Prof. dr R. Lopasic)

(EPILEPSY ther)
(HETEROCYCLIC COMPOUNDS ther)
(MUSCLE RELAXANTS ther)

ZESKOV, P.; HAJNSEK, F.

Abdominal epilepsy. Neuropsihijatrija 8 no.4:317-324 '60.

1. Iz Klinike za djecje bolesti (Predstojnik: Prof. dr. N. Skrivaneli)
i Neurološko-psihijatrijske klinike Med. fakulteta u Zagrebu (Predstojnik:
Prof. dr. R. Lopasic)

(EPILEPSY diag) (ABDOMEN ACUTE diag)

HAJNSEK, F.; GRAUER, H.; SARWER-FONER, G.J.

Review of new drugs used in psychiatry. Neuropsihijatrija 7
no. 3:196-210 '59.

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Kanada, sef: T.E. Dancey.
(TRANQUILIZING AGENTS)

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(ELECTROENCEPHALOGRAPHY, in various dis.

epilepsy & brain cancer, technic & methods (Ser))

(EPILEPSY, diag.

EEG, technic & methods (Ser))

(BRAIN, neoplasms

diag., EEG, technic & methods (Ser))

HAJNSEK, F.

Psychosis with myxedema, case report. Neuropsihijatrija
3 no.3-4:264-267 1955.

1. Dept. of Neurology and Psychiatry, Faculty of Medicine,
Zagreb.

(PSYCHOSES, compl.

myxedema, ther., thyroid gland extract. (Ser))

(MYXEDEMA, compl.

psychoses, ther., thyroid gland extract. (Ser))

(THYROID GLAND,

extract, ther. of psychoses with myxedema. (Ser))

(TISSUE EXTRACTS, therapeutic use,

thyroid extracts in myxedema with psychoses. (Ser))

HAJNIS, Karel

Examination of the methods of calculating the skull capacity from
linear dimensions. Čs morfologie 10 no.2:220-233 '62.

1. Antropologicky ustav Karlovy university, Praha.

*

FETTER, Vojtech; HAJNIS, Karel

Basic body dimensions of adults of the 2nd Spartakiade. Acta univ.
carol. [med.] 8 no.1:13-31 '62.

1. Katedra antropologie prirodovedecké fakulty University Karlovy v
Praze. (ANTHROPOMETRY) (SPORTS)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800027-6

HAJNI, Istvan

Homemade magnetophone with the quality of a studio magneto-phone. Radiotekhnika 13 no.11:428-430 N '63.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800027-6

HAJNL, Taiwan

Homemade studio quality microphone. Radiotekhnika 12 Model
368-369 0 163.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800027-6

VAJDA, Zoltan; HAJNI, Istvan

Supersonic frequency distortion meter. Radioteknika 13 no.9:
322-324 S '63.

VAJDA, Zoltan; HAJNI, Istvan

Remark about the article by H.L. entitled "Automatic battery charger," published in "Radioteknika," no.2, 1963. Radioteknika 13 no.6:233 Je '63.

HUNGARY

MICHAELI, Antal, MAJNAL-PAPP, Maria; Medical University of Pecs, Biophysical Institute (Pecsi Orvostudomanyi Egyetem, Biofizikai Intezet).

"The Effect of Radioactive Radiation on Cardiac Activity."

Budapest, Acta Physiologica Academiae Scientiarum Hungaricae, Vol XXIII, No 4, 1963, pages 315-321.

Abstract: [English article, authors' English summary modified] The effect of radioactive radiation on cardiac activity still presents an unsolved problem. Experimental results described in a previous paper and in this article indicate that such effects should be taken into consideration. The results also suggest that some trace elements play a role in the effect. In these experiments the effect of β -radiation was dealt with but it is likely that contaminants emitting α -rays may also have been involved. The problem can not be considered solved because earlier results could not, thus far, be reproduced. Other factors may also play a role and these should be examined in future experiments. The decisive role in the effect is thought to be played by radiation. 3 Eastern European, 4 Western references.

HAJNAL, Tibor, Dr.

Quantitative data for the evaluation of searching activities in
tuberculosis clinics. Tuberkulosis 12 no.7:164-165 July 59

1. A Budapesti fóvarosi III. ker. TBC-s Gondozó Intézet (központi
igazgató: Szaklay Antal dr. vezető-főorvos: Hajnal Tibor dr.) közleménye.
(TUBERCULOSIS, statist.)

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47 J/1972 7
EXCERPTA MEDICA Sec 17 Vol 5/5 Public Health May 59

1445. THE EPIDEMIOLOGICAL SIGNIFICANCE OF UNKNOWN SOURCES OF
INFECTION AND THE RATIONAL WAY OF THEIR DETECTION - Az
ismeretlen fertőzöforrás járványtani jelentősége és feltárásának racionalis
módja - Hajnal T. Budapest III. ker. TBC. Gondozóint. Budapest -
TUBERK. KÉRD. (Budapest) 1957, 10/12 (233-238)

As long as serial examination of the total population is impossible examination of
contact persons is recommended as the most rational system for the detection of
sources of infection.